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## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 16 83 21 61

Classification of the application (IPC):  
H04W 72/04, H04L 5/14

Technical fields searched (IPC):  
H04L

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	EP 1259092 A2 (NTT DOCOMO INC [JP]) 20 November 2002 (2002-11-20) * paragraphs [0020], [0021] * * paragraphs [0027], [0028] * * paragraph [0032] * * paragraphs [0037] - [0039] * * paragraph [0048]; figures 9A, 9B, 9C *	1, 4, 11, 12, 15
X	WO 2015012655 A1 (LG ELECTRONICS INC [KR]) 29 January 2015 (2015-01-29) * figures 8,13 * * paragraphs [0111] - [0132] *	1-15
X	US 2010290369 A1 (HUI YAN [US] ET AL) 18 November 2010 (2010-11-18) * paragraphs [0027] - [0030] * * paragraph [0049] * * figures 4,18 *	1, 4, 11, 12, 15
E	WO 2016138662 A1 (QUALCOMM INC [US]; CHENG PENG [CN]; HUANG YIN [CN]; WANG NENG [CN]; WE) 09 September 2016 (2016-09-09) * figures 2,4,5,6,7 * * paragraph [0003] * * paragraphs [0005] - [0011] * * paragraphs [0044], [0045] *	1, 11, 12, 15

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 07 February 2019	Examiner Hegeman, Hans
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### CATEGORY OF CITED DOCUMENTS

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|---|--|
| X: particularly relevant if taken alone   | P: intermediate document   |
| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention                        |
| A: technological background   | E: earlier patent document, but published on, or after the filing date |
| O: non-written disclosure   | D: document cited in the application                                   |
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**ANNEX TO SUPPLEMENTARY EUROPEAN  
SEARCH REPORT**

 Application number:  
EP 16 83 21 61

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 07-02-2019  
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